



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

| APPLICATION NUMBER | FILING OR 371 (c) DATE | FIRST NAMED APPLICANT | ATTORNEY DOCKET NUMBER |
|--------------------|------------------------|-----------------------|------------------------|
| 10/804,828 | 03/19/2004 | Qingsheng Zheng | 1086.2017-001 |

021005
 HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
 530 VIRGINIA ROAD
 P.O. BOX 9133
 CONCORD, MA 01742-9133



CONFIRMATION NO. 7115

FORMALITIES LETTER



OC000000012842731

Date Mailed: 06/02/2004

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
Applicant must submit \$ 770 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).
- The oath or declaration is missing.
A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Additional claim fees of \$302 as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is \$1202 for a Large Entity

07/23/2004 MAHME1 00000058 10804828

- \$770 Statutory basic filing fee.
- \$130 Late oath or declaration Surcharge.

| | |
|------------|-----------|
| 01 FC:1001 | 770.00 OP |
| 02 FC:1051 | 130.00 OP |
| 03 FC:1201 | 86.00 OP |
| 04 FC:1202 | 216.00 OP |

- Total additional claim fee(s) for this application is **\$302**
 - **\$86** for **1** independent claims over 3.
 - **\$216** for **12** total claims over 20.

Replies should be mailed to: Mail Stop Missing Parts
 Commissioner for Patents
 P.O. Box 1450
 Alexandria VA 22313-1450

*A copy of this notice **MUST** be returned with the reply.*

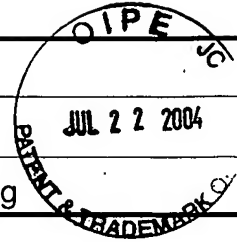
Teclor

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.



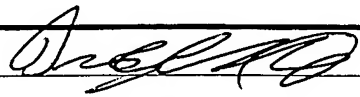
| | | |
|--|------------------------|-----------------|
| FEE TRANSMITTAL FOR PATENT APPLICATIONS | Attorney Docket Number | 1086.2017-001 |
| | Application Number | 10/804,828 |
| | First Named Inventor | Qingsheng Zheng |

CLAIM CALCULATION (includes any preliminary amendment)

| CLAIMS | (1) FOR | (2) NUMBER FILED | (3) NUMBER EXTRA | (4) RATE | (5) CALCULATIONS |
|--------|--|------------------|------------------|---|------------------|
| | TOTAL CLAIMS (37 CFR 1.16(c) or (j)) | 32 - 20* = | 12 | x \$ 18 = | \$ 216 |
| | INDEPENDENT CLAIMS (37 CFR 1.16(b) or (i)) | 4 - 3** = | 1 | x \$ 86 = | \$ 86 |
| | MULTIPLE DEPENDENT CLAIMS (if applicable) (37 CFR 1.16(d)) | | | + \$ 290 = | \$ |
| | | | | BASIC FEE (37 CFR 1.16(a) or (h)) | \$ 770 |
| | | | | Total of above Calculations = | \$ 1072 |
| | | | | Reduction by 50% for filing by small entity (37 CFR 1.9, 1.27, 1.28) = | \$ |
| | | | | TOTAL = | \$ 1072 |
| | | | | Surcharge - Late Filing of Declaration or Filing Fees (37 C.F.R. 1.16(e)) = | \$ 130 |
| | | | | Petition for Extension of Time Fee (37 C.F.R. 1.17) = | \$ |
| | | | | Assignment Recordation Fee = (only when filed with application) | \$ |
| | | | | [Other] | \$ |
| | | | | TOTAL = | \$ 1202 |

* Reissue claims in excess of 20 and over original patent
 ** Reissue independent claims over original patent

1. Small entity status:
 - a. ☐ A small entity statement is enclosed.
 - b. ☐ A small entity statement was filed in the prior non-provisional application and such status is still proper and desired.
 - c. ☐ Is no longer claimed.
2. ☒ A general authorization is hereby granted to charge deposit account number 08-0380 for any fees required under 37 CFR 1.16 and 1.17 in order to maintain pendency of this application. A copy of this authorization is enclosed for accounting purposes.
3. ☒ A check is enclosed for \$1202. ☐ Please charge \$[] to Deposit Account No. 08-0380.
4. ☐ Other: _____

| | | | |
|---------------------------------------|---|-------------|---------------|
| Signature |  | Date | July 20, 2004 |
| Submitted by Typed or Printed Name | Troy T. Svihl | Reg. Number | 55,845 |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Qingsheng Zheng, Magiel J. Harmse, Kent Rasmussen, and Blaine McIntyre
Application No.: 10/804,828 Group: 2121
Filed: March 19, 2004 Examiner: Not Assigned
Confirmation No.: 7115
For: METHODS AND ARTICLES FOR DETECTING, VERIFYING, AND
REPAIRING COLLINEARITY IN A MODEL OR SUBSETS OF A MODEL



| | |
|---|---------------------------------|
| CERTIFICATE OF MAILING OR TRANSMISSION | |
| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on: | |
| <u>JULY 20, 2004</u> Date | <u>[Signature]</u> Signature |
| CHRISTINE A. BUDD Typed or printed name of person signing certificate | |

REPLY TO NOTICE TO FILE MISSING PARTS OF APPLICATION

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In reply to the Notice to File Missing Parts dated June 2, 2004, the following documents and fees are being submitted for filing in the captioned application. A copy of the Notice is attached.

☒ **EXECUTED DECLARATION FOR PATENT APPLICATION**

(Separate transmittal letter and postcard not required)

☐ **POWER OF ATTORNEY DOCUMENT**

☐ Granted by Inventor(s)

☐ Granted by Assignee, including Statement under 37 C.F.R. 3.73(b)

(Separate transmittal letter and postcard not required)

☐ **PRELIMINARY AMENDMENT**

(Separate transmittal letter and postcard not required)

☒ **FILING FEE** - with Fee Transmittal for Patent Applications in duplicate

Fee calculations based on:

☒ Claims as originally filed

☐ The Notice to File Missing Parts states an erroneous number of claims.

☐ Claims upon entry of the Preliminary Amendment filed [herewith] [with the application]

(Separate transmittal letter and postcard not required)

☒ **SURCHARGE** - surcharge fee of \$130

(Separate transmittal letter and postcard not required)

☐ **SEQUENCE LISTING** - Filed concurrently and is attached

(Separate transmittal letter and postcard required)

☐ **REPLACEMENT DRAWINGS** - ☐ sheets of replacement drawings consisting of Figs. 1 - ☐ are enclosed *(Separate transmittal letter and postcard not required)*

☐ A Petition to Accept Color Drawings/Photographs (Fig(s). ☐) and a Transmittal of Replacement Drawings, with attachments, are enclosed.

(Separate check for fees and postcard required)

☐ **PETITION FOR EXTENSION OF TIME**

☐ Applicant hereby petitions to extend the time to respond to the Notice to File Missing Parts dated for month(s) from to The appropriate fee of \$ is included in the enclosed check

☐ A month extension of time to respond to the Notice to File Missing Parts dated was filed on with payment of a \$ fee

☐ Applicant hereby petitions for an additional month extension of time to respond to the Notice to File Missing Parts. The appropriate fee of \$ is included in the enclosed check

(Separate Petition for Extension of Time and postcard not required)

☐ **REQUEST FOR CORRECTED FILING RECEIPT** - Filed concurrently and is attached

(Separate transmittal letter and postcard required)

☐ **STATEMENT CLAIMING SMALL ENTITY STATUS**

☐ Was filed on

☐ Is enclosed herewith

(Separate transmittal letter and postcard not required)

☐ In view of the small entity status of the captioned application, we hereby request a reimbursement of 50% of the filing fees in the amount of \$ which were paid on to be deposited in Deposit Account No. 08-0380

The fees required for filing the indicated documents are enclosed in the form of a check in the total amount of \$1202. Please charge any deficiency or credit any overpayment in the fees that may be due in this matter to Deposit Account No. 08-0380. A copy of this letter is enclosed for accounting purposes.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By 
Troy T. Svihl

Registration No.: 55,845

Tel.: (978) 341-0036

Fax: (978) 341-0136

Concord, Massachusetts 01742-9133

Date: July 20, 2004